

In the Abstract:

PATENT

FRENCH PETROLEUM INSTITUTE

**PROCESS FOR DESULFURIZATION COMPRISING A STAGE FOR SELECTIVE
HYDROGENATION OF DIOLEFINS AND A STAGE FOR EXTRACTION OF
SULFUR-CONTAINING COMPOUNDS**

~~Invention by Florent PICARD and Raphaël HUYGHE~~

ABSTRACT

~~Process for~~ For desulfurization of a hydrocarbon-containing feedstock, ~~that comprises~~ at least one stage for selective hydrogenation of diolefins ~~that are present in said~~ the initial hydrocarbon feedstock, in the presence of a catalyst of group VIII of the periodic table, and a stage for extraction by a solvent of ~~said~~ the resultant hydrogenated fraction under conditions that ~~make it possible to obtain~~ provide at least two fractions:

- a raffinate that comprises for the most part olefins, paraffins and naphthenes and a reduced amount of sulfur-containing compounds that are contained in the initial feedstock,
- a fraction that contains the majority of the aromatic hydrocarbons and the majority of the sulfur-containing compounds ~~that are~~ contained in the initial feedstock.

~~Figure 1 to be published.~~

**PROCESS FOR DESULFURIZATION COMPRISING A STAGE FOR SELECTIVE
HYDROGENATION OF DIOLEFINS AND A STAGE FOR EXTRACTION OF
SULFUR-CONTAINING COMPOUNDS**

ABSTRACT

For desulfurization of a hydrocarbon-containing feedstock, at least one stage for selective hydrogenation of diolefins present in the initial hydrocarbon feedstock, in the presence of a catalyst of group VIII of the periodic table, and a stage for extraction by a solvent of the resultant hydrogenated fraction under conditions that provide at least two fractions:

a raffinate that comprises for the most part olefins, paraffins and naphthenes and a reduced amount of sulfur-containing compounds that are contained in the initial feedstock,

a fraction that contains the majority of the aromatic hydrocarbons and the majority of the sulfur-containing compounds contained in the initial feedstock.